RUDRAPRASAD CONSULTANTS

Structural Engineers, Architects &
Project Management Consultants

To,

Date: 22-01-2020

ASSISTANT EXECUTIVE ENGINEER
BYATARAYANAPURA SUB DIVISION
BBMP
BANGALORE

Dear Sir,

Sub: M/s. Rudraprasad Consultants Services for the work of IMPROVEMENTS TO COMPOUND WALL AND PARK DEVELOPMENTS IN WARD NO.05.

Ref: 1. Work Order No: BBMP/EE/BTP/WO/178/2019-20

2. Job code: 005-20-000010

We are here with forwarding to Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010. First and Final bill duly verified and certified that the Work is satisfactory and for a Gross Value of RS.97,00,040.52 /-(RS. Ninety Seven Lakhs Fourty and Fifty Two Paisa Only).

Thanking you,

Yours faithfully,

For Rudraprasad Consultants

R. KARTHIK RECHAN B.E, M.S (U.S.A)
PRINCIPAL CONSULTANT
RUDRAPRASAD CONSULTANTS

RUDRAPRASAD CONSULTANTS BANGALORE

AE ward No 5

#3, 7th Main Malleswaram, Bangalore – 560003
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NAME OF WORK:- Improvements to Compound Wall and Park Developments in Ward No.05.

Name of Client : EXECUTIVE ENGINEER, BYATARAYANAPURA DIVISION, BBMP, BANGALORE

Contractor/ Agency: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Total Cost : Rs- 97,00,040.52/-

Date Of Inspection : 22-01-20

Status Of Bill : First & Final Bill

In the Presence of : a) Assistant Engineer ,Ward no-7 ,Byatarayanapura division, BBMP, Bangalore
b) R. Karthik Rechan, Partner, M/S RUDRAPRASAD CONSULTANTS, BANGALORE

PMC COMPLIANCE REPORT		
Sl. No.	**Description of work**	**Comments/Observations**
1	Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
2	Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
3	Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory

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4	construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
5	Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
6	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications	Work done upto the Billed Quantity and the Quality is satisfactory
7	Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
8	Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
9	Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
10	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory

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11	Applying priming coat over new wood surface and / or wood based surface preparing the surface after thoroughly cleaning oil, grease, dirt, and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
12	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
13	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufactures of blocks of approved size , shape and colour with a minimum compressive strength of 281kgs per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour, curing complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
14	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
15	Providing and fixing Cement Concrete Benches with Base, Back rest and Pedestals of size, Shape and Design including Transportation and with lead and lift, loading and unloading, Earthwork excavation and fixing in 1:4:8 (wherever necessary) and curing etc., complete as per standard Specification and direction of engineer in charge as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
16	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification.	Work done upto the Billed Quantity and the Quality is satisfactory

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17	Supply and Fixing of Pull Down Challenger. Metal: All tubular steel of 2 .5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All weld d joints are scalloped as necessary and welded to an approved MIG process.All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at II the welding points prior to finishing . All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. Allmetal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to 1507227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for th e handles. Bearings:Maintenance-free ball bearings. Scope of delivery: 1completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified internat ional certifying agency such as IPEMA,TUV,CPSC, or SGS only.The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must clearly display the GS ma rk as has been issued in the EN16630 safety certificates.	Work done upto the Billed Quantity and the Quality is satisfactory
18	Supply and fixing of Seated Chest Press. Metal: All tubular steel of 2.Smm thikness are galvanized and z inc dipped. Joints are Robotic welded. All welded joints t1H • scalloped as necessary and welded to an approved MIG process. All welds an• 111 csed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the w 11lt1ing points prior to finishing. All metal parts are powder coated using AKZO Nobel (11 ca t Wall powder to the thickness of 80-120 microns. All metal parts are tested in rn 1r a lt spray machine that uses a 5% NaCl solution in accordance to 1507227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handle!,,Bearings: Maintenance-free ball bearings. Scope of delivery: 1completely Prt' ,ssembled equipment modules. Maintenance: Maintain according to EN 166630 and the maintenance guide. Safety: All products must be tested and certified to mt•(•lEN16630 safety standards with GS test mark. The EN 16630,certificates must be issued by a reputed notified international certifying agency such as IPEMA, 1UV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party.All products must clearly display the GS inark as has been issued	Work done upto the Billed Quantity and the Quality is satisfactory

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19	Supply and fixing of Self Weighted Rower. Metal: All tubular steel of 2.Smm thit.kness are galvaniied and zinc dipped. Joints are Robotic welded. All welded joiflts arc scalloped as necessary and welded to an approved MIG process. All welds arc dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our sa lt S'PI,ray machine.that uses a 5% NaCl solution in accordance to IS07227 to speed up3 c_6rrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1completely pre-assembled equipment modules. Maintain according to EN 16630 and the maintenance guide. Safety:All products must be tested and certified to meet EN16630 safety standards only by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS. The GS Mork• EN16630 Certificates must be in the name of tendering party and not any 3rd p;:11 ty All products must carry a GS mark on it.. Size_L x W x H}: 1390 x 805 x 1100 mm. Weight: 42.4 Kg Safety Area: 3790 x 3205 mm as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
20	Supply and fixing of Elliptical Cross Trainer. Metal: All t\jbular steel of 2.Smm thickness are galvanized and zinc dipped. Joints are RClbotic welded. All weldecl 1oints a re scalloped as necessary and welded to an approve(j MIG process. All welds .i re dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at .ill the welding points prior to finishing. Alt metal parts are PCl\vder coated using AKZO Nobel Great Wall powder to the thickness of 80-120 microns. All metal parts are testecJ in our salt spray machine that uses a 5% NaCI solution iri ilccordance to IS07227 to speed up corrosion for 3000 hrs. Rubber: High quality €rip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1completely.pre-assembled equipment modules. Maintenance: Maintain according to EN 1G630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards w ith GS test mark.The EN 16630 certificates must be issued by a reputed notified international certifying agl!ncy uch as IPEMA,TUV ,CPSC, or SGS only .The GS Mark-EN16630 Certificates must be in the name of tendering party and not any 3rd party. The certificates must be attached with I he tender document. Alt products must clearly display tt) GS mark as has been i ued in the EN16630 safety certificates.	Work done upto the Billed Quantity and the Quality is satisfactory

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21	Supply and Fixing of Rider. Metal: All tubular steel of 2.smm thickness are galvd 1 ilzed and zinc dipped . Joints are Robotic welded. All weldect joints are scalloped as necessary and welded to an approved MIG proi;ess. .<\11 welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing.All metal parts are powder Clated using AKZO Nobel-G reat Wall powder to the thickness of 80-120 microns. All ll\etal parts are tested in our sa lt spray machine that uses a 5% NaCl solution in accorcJ<ince to 1507227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubher is used for the handles. 5 Bearings : Maintenance-free ball bearings...Scope of c:l livery: 1completely pre-assembled equipment modules. Maintenance: Maint<1in according to EN 16630 a nd the maintenance guide. Safety: Alf products must b tested and certified to meet EN16630 safety standards with GS test mark. The EI\! 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV ,CPSC, or SGS only. The GS Mark-EN16630 Certificate must be in the name of tendering party and not any 3rd party. All products 'hust clearly display the GS mark as has been issued in the EN 16630 safety certificate.	Work done upto the Billed Quantity and the Quality is satisfactory
22	Supply and Fixing of Bicycle. Metal: All tubular steel of 25mm thickness are galvani zed and zinc dipped. Joints are Robotic welded. All welded joint s are S('.llloped as necessary and w eldea to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the weltling points prior to finishing.All metal parts are powder coated using AKZO Nobel GreatWall powder to the thickness of 80- 120 microns. All metal parts are tested in our salt v pray machine that uses a 5% NaCl solution in accordance to IS07227 to speed up -orrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. each 1 125000 125000 131188 131188 134500 134500 Bearings: Maintenance-free ball bearings . Scope of delivery: 1completely pre assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to mee t EN16630 safety standards only by a reputed notified international certifying acency such as IPEMA,TUV,CPSC, or SGS. The GS Mark-EN16630 Certificates must be in the name of tendering party and not any 3rd party. Size_L x W x H): 1000 x 498 x 120 as per specifications. -	Work done upto the Billed Quantity and the Quality is satisfactory

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23	Supply and Fixing of Arm & Pedal Bike. Metal: All tubular steel of 2.Smm thickness a re galvanized and zinc dipped.Joints are Robotic welded.All welded joints are sca lloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles.Bearings : Maintenance-free ball bearings.Scope of delivery: 1completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide.Safety : All products must be tested anEI certified to meet EN16630 safety standards only by a reputed notified international certifying agencv such as IPEMA,TUV, CPSC, or SGS. The GS Mark- EN16630 Certificates must be in t he name of tendering party and not any 3rd	Work done upto the Billed Quantity and the Quality is satisfactory
24	Supply and Fixing of Tai Chi Spinners . Metal: All tubular steel of 2.Smm thicknp<.s are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are sc;illoped as necessa ry and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the w eldin points prior to finishing. All metal parts are powder coated using AKZO Nobel G reat Wall powder to the thickness of 80- 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to JS07227 to speeu up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance -free ball bearings. Scope of delivery: 1completely pre-assembled equipment modules. Maintena nce:Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUY, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. Thecertificates must be attached with the tender document . All products must clearly -display the GS mark as has been issued in the EN15630 safety certificates. Size_ L x W x H): 1120 x 1150 x 1620 mm. Weight: 39 Kg Safety Area: 3520 x 3550 mm	Work done upto the Billed Quantity and the Quality is satisfactory

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25	Supply and fixing of Twist Stepper. Metal: All tubular steel of 2.Smrn thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are sca lloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-GreatWall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings.Scope of delivery: 1completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark.The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV ,CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates . Size_ L x W x H): 1395 x 650 x1750 mm. Weight: 53.8 Kg Safety Area.: 3795 x 3050 mm as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
26	Supply and fixing of HD Health Walker. Metal: All tubular steel of 2.Smm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joint s arescalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a S% NaCl solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bea rings.11 Scope of delivery: 1completely pre-assembled equipment modules. Maintenance: Maintain according to EQ_and the maintenance guide.Safety: All productsmust be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS oniy. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. The certificates must be attached with the tender document . All products must clearly display the GS mark as has been issued in the EN16630 safety certificates .Sizelx W xH): 1065 x 61S x 1364 mm.Weight: 51Kg. Safety Area: 4090 • 3555mm.	Work done upto the Billed Quantity and the Quality is satisfactory

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27	Supply and fixing of HD Waist Twister. Metal : All tubular steel of 2.Smm thic k11ess are ga:vanized and zinc dipped. Joints are Robotic welded. All welded joints are scJlloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns.Al l metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to IS07227 to speed up rrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. arings : Maintenance-free ball bearings.Scope of delivery: 1completely pre-assembled equipment modules. Maintenance : Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA,TUV, CPSC, or SGS only. The GS Mark-EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates	Work done upto the Billed Quantity and the Quality is satisfactory
28	Providing ,fabricating and fixing Special Multiplay Systems consists of FRP moulded with Aluminium chequered platforms of size 5x5 ft with 4 support piller made out of 75 mm dia G.I "B"pipes fixed in cement concrete 1:2:4.The patforms are to be covered with pyramid shaped FRP roof. The platform is to be with tubular slide & Mini Aquva tunnel Slide made up of high quality FRP the slide is to fixed at a height of 11ft and runs for a length of not less than twenty ft and the slide should be supported at regular intervals of 6ft using M.S pipes support and the platform ladder with 25mm dia MS pipes with suitable hand rails and steps made out of G I sheet with tred 4" with powder coated finish,fine quality FRP with suitable design and as per drawing Moulded FRP slides are non-corrossive ,fade free,tough grade,durable hard and should prevent uv light.The work should be executed as per the standard specifications and directions of the engineer in charge with all lead and lift,loading and unloading and any incidental charge required for as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
29	Providing, fitting and fixing mild steel railing complete as per drawing and Technical Specification complete as per specifications	Work done upto the Billed Quantity and the Quality is satisfactory

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30	Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
31	Fabricating, supplying and erection of …Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m sec for …….Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom …..mm, top….mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawing appended. 7 meters - Top 75mm and bottom 145 mm dia as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory

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32	Supplying of 1.1 KV class UG cable in having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheathing 1.1 KV class as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
33	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
34	Labour charges for laying of UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
35	Supplying and fixing of heavy duty cable glands suitable or UG cable o 1.1KV as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
36	Supplying tinnd copper lugs and crimping and wiring to terminal point for wire of the following sizes as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
37	Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete.Single Arm Bracket with 1500mm Standard 40/50MM dia as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
38	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application.)Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory

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39	Supply, installtion, testing and commissioning of STREET LIGHT PANEL made up of 16SWG CRCA sheet for body and 14 SWG CRCA sheet for door, outdoor type, floor mounting, powder coated,Degree of projection IP56, with necessary hard ware, interconnection wiring & accessories complete comprising of the following Incomming : 63A 4P 10KA MCB + 2 nos. 32A 3P ACI contactor + 2 nos. 24hrs Timer Outgoings :18 as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
40	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
41	Loading and Unloading of stone boulders by manual means complete as per specification	Work done upto the Billed Quantity and the Quality is satisfactory

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